

Application No. 09/841,255

2. The polishing composition of claim 1 wherein the particles are dispersed in an aqueous solution.
3. The polishing composition of claim 1 wherein the particles are dispersed in a nonaqueous solution.
4. The polishing composition of claim 1 wherein the non-silicon metal compound is selected from the group consisting of TiO_2 , Fe_3C , Fe_7C_3 , Fe_2O_3 , Fe_3O_4 , MoS_2 , MoO_2 , WC , WO_3 and WS_2 .
6. A method of smoothing a surface comprising the step of polishing the surface with the polishing composition of claim 1.
7. The method of claim 6 wherein the polishing is performed with a polishing pad.
8. The method of claim 6 wherein the polishing is performed with a motorized polisher.
9. The polishing composition of claim 1 having a single crystalline phase with a uniformity of at least about 90 percent by weight.
10. The polishing composition of claim 9 wherein the non-silicon metal compound is selected from the group consisting of TiO_2 , Fe_3C , Fe_7C_3 , Fe_2O_3 , Fe_3O_4 , MoS_2 , MoO_2 , WC , WO_3 and WS_2 .

Application No. 09/841,255

12. The polishing composition of claim 9 wherein the particles have a single crystalline phase with a uniformity of at least about 95 percent by weight.

13. The polishing composition of claim 9 wherein the particles have a single crystalline phase with a purity of at least about 99 percent by weight.

14. The polishing composition of claim 9 wherein the particles have a single crystalline phase with a purity of at least about 99.9 percent by weight.

221
15. (Three Times Amended) A polishing composition comprising a dispersion of particles, the particles comprising a non-silicon metal compound with an average particle diameter from about 5 nm to about 50 nm, wherein less than about 1 particle in 10^6 has a diameter greater than about five times the average diameter.

23. The polishing composition of claim 15 wherein the particles are dispersed in an aqueous solution.

24. The polishing composition of claim 15 wherein the particles are dispersed in a nonaqueous solution.

25. A method of smoothing a surface comprising polishing the surface with the polishing composition of claim 15.

Please add new claims 26-31 as follows: